Service Bulletin SB-0050

Epic Aircraft, LLC ◆ 22590 Nelson Road ◆ Bend OR 97701
Phone: 541-318-8849 ◆ Fax: 541-382-5125 ◆ Web: www.epicaircraft.com

Subject: Evaporator Drain Installation

ATA-Code: 21-50

Labor: 6.0 Hours

Effectivity: K003 - K037

Affected Model(s): E1000, E1000 GX

Due: Next annual inspection.

Compliance: Mandatory

Recurrence: No

1 BACKGROUND AND PURPOSE:

On affected aircraft it has been found that condensation may collect from the air conditioning evaporators in the aft underfloor area.

This Service Bulletin gives instructions to install a condensation drain for the left and right air conditioning evaporators.

2 REFERENCES:

Epic E1000 Aircraft Maintenance Manual P/N SK05000000

3 WARRANTY:

For aircraft under warranty, parts and labor will be covered by Epic Aircraft, LLC if the work is performed within the compliance period and by a properly certificated Airframe and Power Plant mechanic or FAA approved repair station.

4 APPROVAL:

The engineering aspects of this service document have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved.

5 REVISION:

- This is the original issue of this service bulletin.

6 TOOLS:

No.	Description	Qty	Epic Aircraft Supplied	Customer Supplied
1.	Common hand tools.	A/R	☐	☒
2.	0.098 dagger drill bit (P/N: 098DGGRDR4)	A/R	☐	☒
2.	0.125 dagger drill bit (P/N: 125DGGRDR4)	A/R	☐	☒

7 PARTS/MATERIALS:

No.	Part Number	Description	Qty	Epic Aircraft Supplied	Customer Supplied
1.	PK53101102	G-10 Fitting Adapter, Evaporator Water Drain	1	☒	☐
2.	Loctite EA 9360 Aero	Epoxy Adhesive	A/R	☐	☒
3.	N-4-040-BLU	Parker Flexible Nylon Tubing	A/R	☒	☐
4.	3108 56 11	Legris: Male Branch Tee, 1/4" Tube X 1/8" NPT, Push Connnect	1	☒	☐
5.	3102 60 56	Elbow, Unequal Union, 3/8 Tube To 1/4 Tube, Parker, Legris	2	☒	☐
6.	SFPP-0173-RED	Silicone Flanged Pull Plug	1	☒	☐
7.	CB9302V3 or VRTH-07A	Zip Tie Block	A/R	☐	☒

8 INSTRUCTIONS:

1. Set the BATT 1 and BATT 2 switches to OFF.
2. Disconnect external electrical power from the airplane (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 24-40).
3. Remove the aft passenger seats (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 25-20).
4. Remove the aft passenger seat rails (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 53-40).
5. Remove the aft passenger floor (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 53-20).
6. Install the 3102 60 56 fittings on the left and right evaporators per Figure 1.
7. To create the drain fitting in the fuselage, do the steps that follow:

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CAUTION: When drilling, be sure to use a sharp dagger bit, failure to do so might cause chipping or fraying of the fuselage skin or paint.

a. Drill a 0.098” pilot hole in the fuselage skin, from the interior out, as located in Figure 3.

b. From the outside of the aircraft, open up the pilot hole to the final diameter with the 0.125 bit.

c. Install the fitting adapter.

i. Insert silicone pull plug into G 10 fitting adaptor so that the long end will exit the aircraft when installed (see Figure 4).

ii. Put the G10 adaptor into a soft jaw vice.

iii. Install T-fitting into threaded portion of G10 adaptor. Hand tighten until threads are seated and all free rotation is removed, then tighten 1/2 turn.

iv. Remove the assembly from the vice.

v. Surface prep G10 adapter and bonding surface of aircraft (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 51-20).

vi. Apply Loctite EA 9360 to mating surface of adaptor.

vii. Feed silicone plug through 0.125 hole while Installing assembly on center.

Note: be sure to not pull the plug all the way out until adhesive is cured.

viii. While maintaining pressure on the plug, allow the Loctite to cure in accordance with the manufacturer’s instructions.

ix. Remove silicone plug by pulling it through the drain hole once adhesive is cured.

8. Install drain lines between left and right evaporators and fuselage drain (route according to Figure 2, using zip tie blocks as needed).

Note: Assure drain lines are seated by giving a light tug after install.

Note: Tie blocks should be positioned so that the drain lines are at or below the evaporator drain fittings for proper draining function.

9. Install the aft passenger floor (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 53-20).

10. Install the aft passenger seat rails (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 53-40).

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11. Install the aft passenger seats (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 25-20).

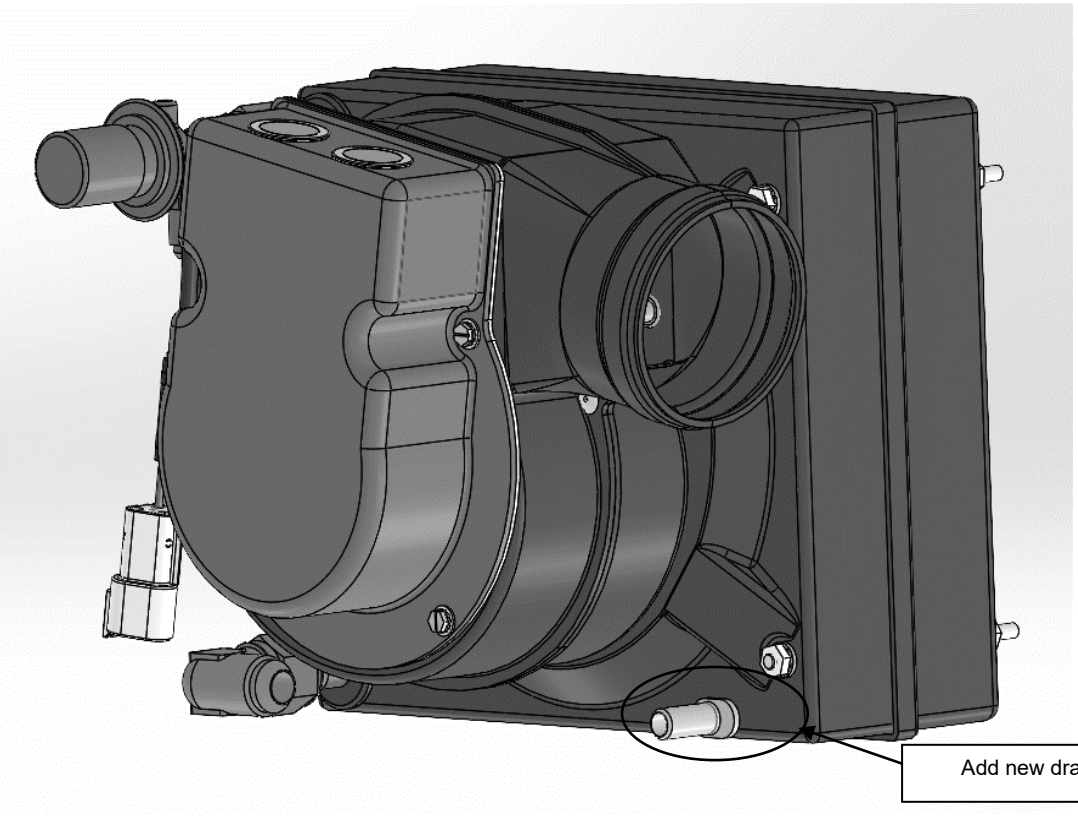


Figure 1: Evaporator Drain Replacement

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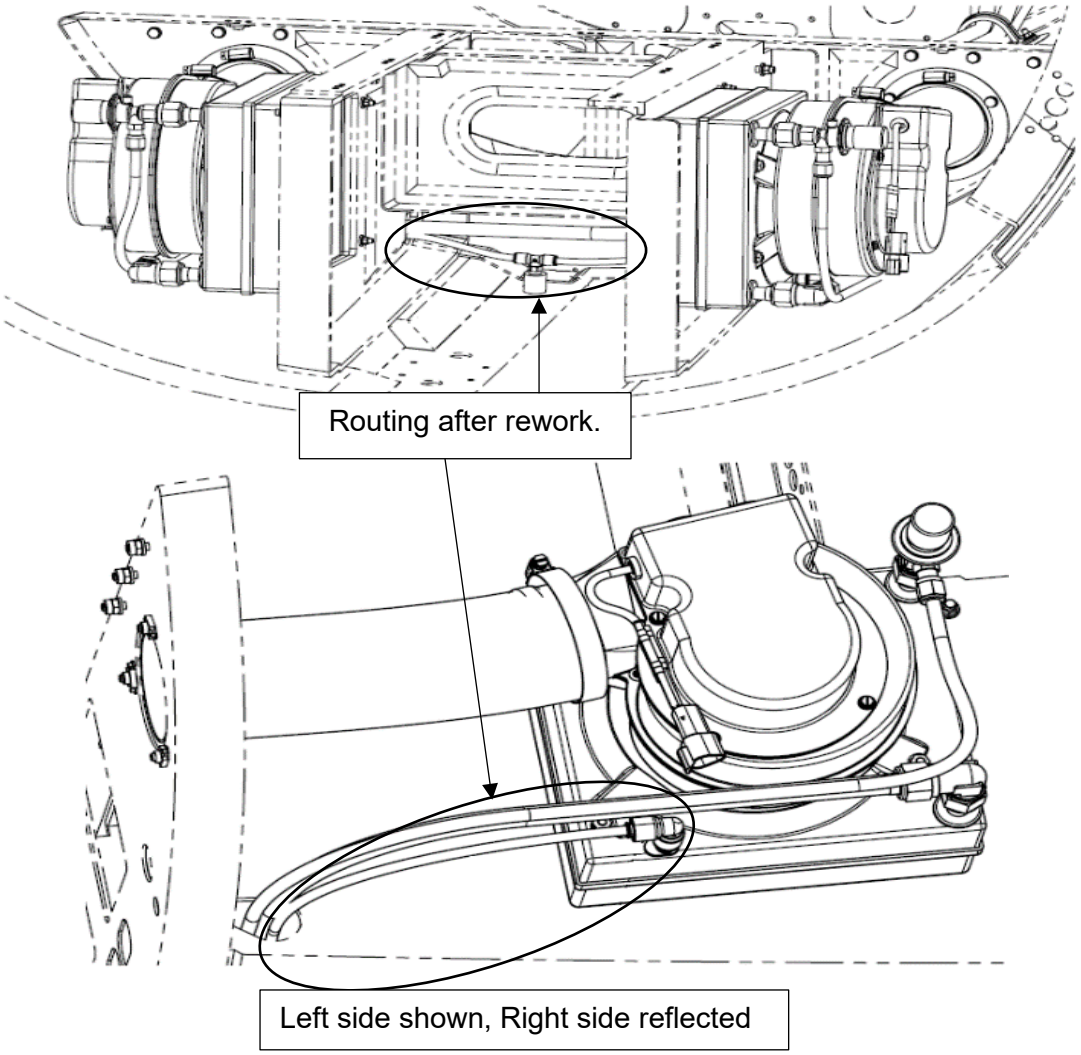


Figure 2: Line Routing

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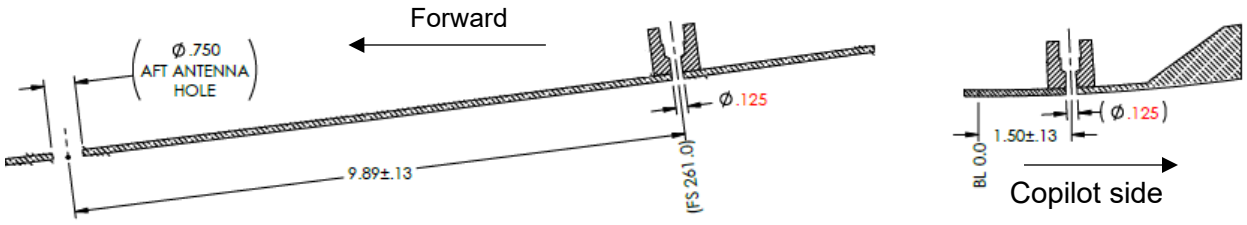


Figure 3: Fuselage Drain Location

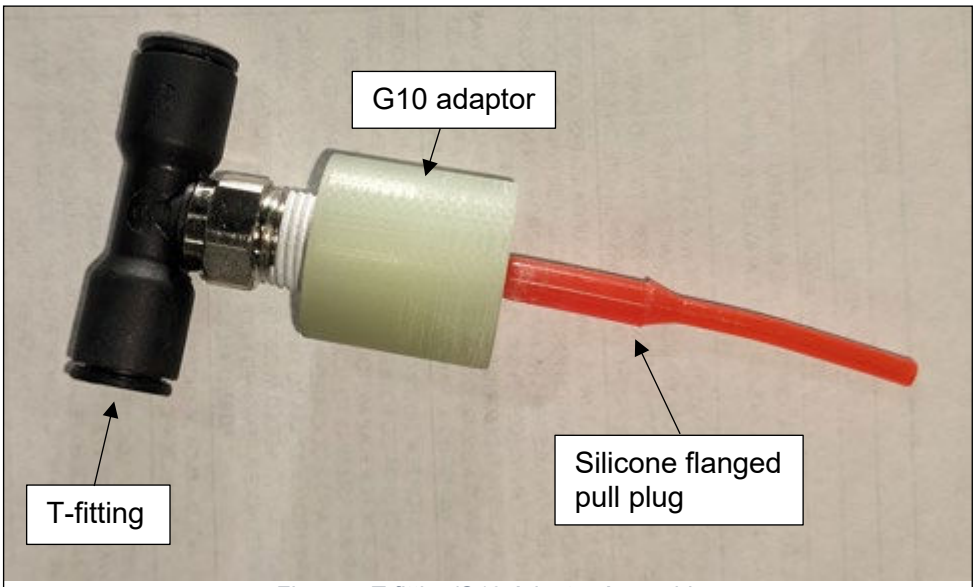


Figure 4:T-fitting/G10 Adaptor Assembly

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9 WEIGHT AND BALANCE:

Negligible

10 PUBLICATIONS AFFECTED:

Epic E1000 Aircraft Maintenance Manual P/N SK05000000
Epic E1000 Illustrated Parts Catalog, P/N SK05000004

11 RECORD COMPLIANCE:

Make appropriate entry in airplane maintenance records.

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Appendix A: Compliance Letter

Please complete and mail this form to Customersupport@epicaircraft.com

This is to certify that I have completed the work in accordance with the Epic Aircraft, LLC Service Bulletin.

Aircraft Owner Information:
Date: _____ Aircraft Serial Number: _____ Aircraft Reg. Number: _____ Owner's Name: _____
Maintenance Entity Information
Name of Shop Performing the work: _____ Name of Person(s) Performing inspection and/or work: _____ Phone Number: _____ Email: _____